

DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 9 • FINISHES

09 68 00 • CARPET

SECTION INCLUDES

Sheet Carpet

Carpet Tile

RELATED SECTIONS

03 00 00 Concrete
06 50 00 Rough Carpentry
09 30 00 Tile Flooring
09 64 00 Wood Flooring
09 65 00 Resilient Flooring

TESTING, DESIGN & INSTALLATION STANDARDS

CRI- Carpet & Rug Institute www.carpet-rug.com

ASTM Test Method F 1869- vapor transmittance of concrete slab

ASTM Standard Practice F710- alkalinity of concrete slab

ASTM Test Method D 5116- VOC content in carpets

ADA- Americans with Disabilities Act Federal Accessibility Guidelines

MAAB- Massachusetts 521CMR Architectural Access Board Regulations

DESIGN

Carpet is discouraged in dwelling units. Alternative materials which require less maintenance and do not absorb dirt, spills and odors are preferred. Discuss needs with the local housing authority and find alternative flooring products, where possible, which satisfy those needs.

If carpet is to be used in common spaces, do not specify wall-to-wall carpet for public corridors, communal entry vestibules dining areas, laundry rooms, or other high traffic areas. Instead, use 50 cm x 50 cm or 24" x 24" carpet tile with integral backer.

Removable floor mats are preferred at entries

Do not install carpet over existing vinyl, VAT or rubber flooring, except VCT, (where VCT finish is stripped and cleaned prior to carpet).

Provide ADA/MAAB compliant transitions strips, in extruded aluminum or vinyl.

Confirm finish floor level prior to specifying and require Contractor do the same prior to ordering materials for proper clearance at in-swing doors.

When carpet is used at special needs, barrier free, and adaptable units, provide direct glue-down carpet with a high-density pad for easier wheelchair maneuvering. All edges should be continuously adhered. The carpet backing and adhesive should be waterproof



DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 9 • FINISHES

09 68 00 • CARPET

SHEET CARPET & CARPET TILE

Specify straight wall base for ease of maintenance and future carpet replacement.

Where carpet tile is used, specify a requirement for 5-10% attic stock for delivery to housing authority at substantial completion as part of the contract.

MATERIAL

Select a specific carpet by manufacturer and series and specify it with at least two approved equals. Review carpet submittals and do not accept substitutes that do not meet the specification.

Carpet should meet the following criteria:

- ☐ Short (1/8 to 3/16 inch), closed loop pile with an anti-ravel feature, and a minimum 11 pound tuft bind.
- ☐ Warranties should be minimum 10 year:
 - ☐ for stain resistance and colorfastness
 - ☐ for pad de-lamination warranty for carpet tile.
 - ☐ against edge-ravel, zippering or de-lamination for both carpet tile and roll carpet.
 - ☐ for antimicrobial treatment
- ☐ Solution-dyed nylon, 18-22 ounce, level loop.
- ☐ Class 1-flammability rating and a maximum specific optical density of 450 or less during smoke generation.
- ☐ Permanent anti-microbial treatment

Select carpet colors with relatively high light reflectance, especially for interior spaces with low light levels.

Select multi-colored patterns which are varied and multi-directional to help hide dirt and stains. Integrate patterns and borders to provide visual cues and interest, when carpet tile is used.

Specify manufacturers who have established recycling programs in place, if the quantity of carpet justifies the transportation costs to the recycling facility.

EXECUTION

Acclimate and install carpet in temperatures between 55 and 95 degrees Fahrenheit; unroll carpet and allow carpet to relax 24 hours minimum before installation. Maintain temperatures during curing and do not permit traffic for 48 hours on adhered carpet.

Inspect concrete and pre-cast plank floors and specify a leveling compound if required. For new slabs and slabs-on-grade constructed prior to 1974, test concrete floor for moisture vapor and alkalinity per ASTM standards.

DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 9 • FINISHES

09 68 00 • CARPET

Re-install fasteners and/or install additional screws if required to properly to secure floor sheathing and sub-floor.

Require seaming diagrams shop submittals from the installer before work sheet carpet work begins. Minimize seams in carpet and pad.

Avoid running sheet carpet seams perpendicular to doorways, at pivot points or across the path of travel in corridors.

Align the carpet seams perpendicular to the pad seams or offset at least 6" between the two.

Do not carpet over expansion joints.

Sheet carpet installed with a pad should be power stretched.

Adhered carpet should be rolled in both directions, using manufacturer's prescribed roller weight.

Provide housing authority with manufacturers' instruction sheet on proper maintenance, including recommended cleaning methods.

CARPET ADHESIVES

- ☐ Low VOC adhesives, (less than 10 mg/sq. meter/hr.), per ASTM D5116.
- ☐ Less than 3.00 mg/sq. meter/hr. 2-ethyl-1 hexanol
- ☐ Less than .05 mg/sq. meter/hr. formaldehyde

CARPET PAD

- ☐ At least 25% recycled pad content.
- ☐ Total pad VOC's less than .5 mg/sq. meter/ hr.
- ☐ Total pad BHT (butylated hydroxytoluene) less than .30 mg/sq. meter/hr.
- ☐ Total pad formaldehyde or phenylcyclohexene less than .05 mg/sq. meter/hr.
- ☐ Class II fiber or rubber pad- polyurethane foam pads are not acceptable

INDOOR AIR QUALITY CONSIDERATIONS

When replacing old carpet, vacuum old carpet prior to removal and vacuum subfloor immediately after the old carpet and cushion have been removed.

When installing new carpet, provide fresh air ventilation for 48 hours minimum after the installation of carpet and adhesives.

Do not use heating with air recirculation during carpet installation.

Use low-VOC adhesives.

RECYCLING

Specify recycling for waste carpet, and for carpeting being removed when recycling is available. Research this prior to specifying carpet and give preference to manufacturers and products which have high recycled content and manufacturer's recycling programs in place.

Specify carpet pads with at least 25% recycled content.

